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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/669,032	09/25/2000	Ryota Mita	16869P-014900US 3497		
20350	7590 04/22/2004		EXAMINER		
TOWNSEND AND TOWNSEND AND CREW, LLP			CHAU, COREY P		
- · · · · · · · · · · · · · · · · ·	RCADERO CENTER	ART UNIT	PAPER NUMBER		
EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			2644		
SANTRANCI	13CO, CA 94111-303-	•	DATE MAILED: 04/22/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

į *1	•	Applicat	on No.	Applicant(s)			
Office Action Summary		09/669,0	32	MITA ET AL.			
		Examine	<u>r</u>	Art Unit			
		Corey P	Chau	2644			
Period fo	The MAILING DATE of this commun or Reply	ication appears on th	e cover sheet with the c	correspondence addre	SS		
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (3 period for reply is specified above, the maximum so pre to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no evenunication. solologys, a reply within the state attutory period will apply and vorwill, by statute, cause the ap	vent, however, may a reply be tin tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed /s will be considered timely. to the mailing date of this commit D (35 U.S.C. § 133).	unication.		
Status							
1)⊠	Responsive to communication(s) file	ed on 25 September	2000.				
2a)□		2b)⊠ This action is i					
3)□							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>8-16</u> is/are pending in the 4a) Of the above claim(s) <u>1-7 and 1</u> Claim(s) is/are allowed. Claim(s) <u>8-16</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	is/are withdrawn fro					
Applicat	ion Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on <u>09/25/00</u> is/a Applicant may not request that any objected the path or declaration is objected the specific structure.	re: a)⊠ accepted on ction to the drawing(s) g the correction is requi	be held in abeyance. See red if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1	` ,		
Priority (under 35 U.S.C. § 119						
12)□ a)l	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents have been documents have been of the priority documental Bureau (PCT Ru	en received. en received in Applicati ents have been receive le 17.2(a)).	ion No ed in this National Sta	ge		
		•					
Attachmen			л. П	(DTO 442)			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F	PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate			
3) 🔲 Inform	mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		5) Notice of Informal P 6) Other:	Patent Application (PTO-152	2)		

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DETAILED ACTION

Election/Restrictions

Claims 1-7 and 17 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected an invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

2. Applicant's election without traverse of an invention in Paper No. 5 is acknowledged.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and **generally limited to a single paragraph** on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

4. Claim 14 is objected to because of the following informalities: The preamble of Claim 14, "A melody sound reproducing method unit" is inconsistent with the preamble of Claim 13, "A melody sound reproducing method for a melody sound reproducing unit". Appropriate correction is required.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 6. Claims 8, 9, 11, 12, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S Patent No. 6501967 to Makela et al. (hereafter as Makela).
- 7. Regarding Claim 8, Makela discloses a melody sound reproducing unit (1) comprising:

a speaker (17) for providing specified output in a range between a first frequency and a second frequency (column 5, lines 47-56; column 5, line 62 to column 6, lines 24);

a memory means (12) for storing signal data corresponding to an audio signal to be generated by the signal generating means (abstract; column 2, lines 42-50; claim 1); and

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a control means (11) for controlling said signal generating means based on said signal data (column 5, lines 30-61);

wherein said signal data is stored in said memory means (12) when the frequency of the corresponding audio signal is in a range between said first frequency and said second frequency (abstract); and

the audio signal whose having a frequency is in a range between said first frequency and said second frequency is supplied to said speaker (17).

8. Regarding Claim 9, Makela discloses the signal data includes interval data, and scale data, and as well tone data (i.e. information defining the ringing tone is input as a characters, each character defining both pitch and duration of a tone and stored in the memory) (abstract);

said memory means stores a plurality of pieces of signal data having first tone data in a specified order and stores plurality of pieces of signal data having second tone data in a specified order (i.e. tones, i.e. notes and rests, can be selected, e.g., from a note menu, and they an be placed in the desired place on the stave displayed on the display and then stored as the ringing tone) (Fig. 2B); and

said control means controls said signal generating means in such a manner that generates an audio signal corresponding to the signal data having said first tone data and an audio signal corresponding to the signal data having said second tone data are generated with predetermined timing (column 6, lines 25-44).

9. Claim 11 is essentially similar to Claim 8 and is rejected for the reasons stated apropos to Claim 8.

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10. Claim 12 is essentially similar to Claim 9 and is rejected for the reasons stated apropos to Claim 9.

11. Claim 15 is essentially similar to Claim 8 and is rejected for the reasons stated apropos to Claim 8.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 10, 13, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 6501967 to Makela et al. (hereafter as Makela) in view of U.S. Patent No. 6100462 to Aoki.
- 14. Regarding Claim 10, Makela discloses a melody sound reproducing unit, but does not expressly disclose the audio signal corresponding to the signal data having the first tone data and the audio signal corresponding to the signal data having the second tone data form a chord relation in intervals and scales with each other in terms of their intervals and scales. However it would have been obvious to one of ordinary skill in the art at the time the invention was made to seek known methods of melody sound reproducing in order produce different kinds of ringing tones, which is easily recognized and distinguished from the ringing tones of other phones (column 7, lines 3-21). Aoki for example, discloses an apparatus and method for generating melody, which will feel

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musical apparatuses.

natural from a musical point of view and is applicable in various kinds of electronic musical apparatuses such as an electronic musical instrument, an automatic music composing apparatus, and a computer-system-configured music composing apparatus. Aoki discloses a method for generating a melody which comprises the steps of: inputting key information which designates a key and chord information which designates chords for a melody to be generated; providing available note scales based on the inputted key information and the chord information; targeting a note at a time position among a succession of time positions defining a rhythmic progression of the melody to be generated, the step of targeting occurring in a sequence; selecting for each targeted note a note pitch from among the provided available note scale; and aligning the selected note pitches in the targeted sequence. It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ any known methods of melody sound reproducing, such as that of Aoki. Therefore it would have been obvious to modify the melody sound reproducing unit of Makela with the teaching of Aoki to utilize the apparatus and method for generating melody, which will feel natural from a musical point of view and is applicable in various kinds of electronic

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- 15. Claim 13 is essentially similar to Claims 8 and 10 and is rejected for the reasons stated apropos to Claims 8 and 10.
- 16. Claim 14 is essentially similar to Claim 10 and is rejected for the reasons stated apropos to Claim 10.

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17. Claim 16 is essentially similar to Claim 14 and is rejected for the reason stated apropos to Claim 14.

Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey P Chau whose telephone number is (703)305-0683. The examiner can normally be reached on Monday - Friday 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on (703)305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 19, 2004

SPE, AT CLIX 2644